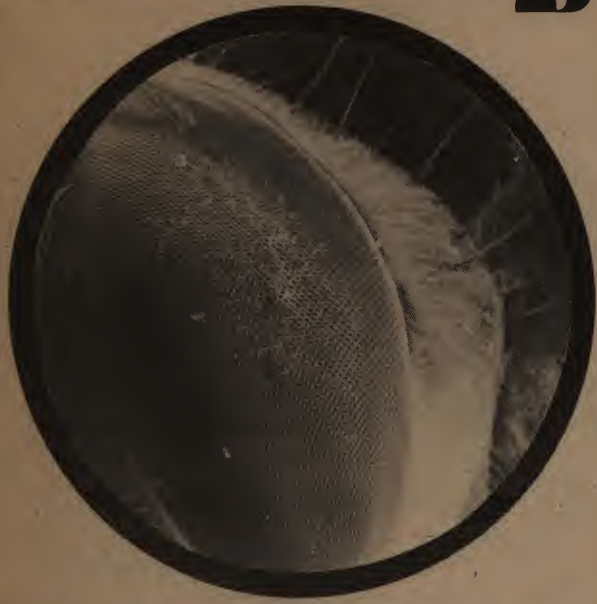


the Ring



"Many a great man's reputation for wit is due to his having been interviewed by a bright reporter."

— Bob Edwards, Calgary Eye Opener, Feb. 22, 1919

Volume 3, Number 14, October 5, 1977

University of Victoria

Petch moves

President Howard Petch and his family are moving out of University House Oct. 7 to a residence next door at 3775 Haro Rd.

The residence, known as the Wood property, was purchased in 1976 by the Board of Governors as part of UVic's long-range land acquisition program.

Up to now the Petch family has occupied a portion of University House which also serves as a facility for university meetings, receptions, and dinners.

The upstairs portion of the house will be occupied by the newly formed Department of Community Relations which includes information services, graphic arts, ceremonies and special events, university development and the alumni association.

Petch said that these offices have been amalgamated under one administration and until space becomes available in the Sedgewick Building, "it is imperative that they be in the same location."

Effective Nov. 1, the entire ground floor and the basement boardroom at University House have been assigned to the non-academic bookings office.

Petch said these facilities will be available on a regular basis for meetings of the faculty and staff.

The ground floor consists of two large lounges, a dining room and a kitchen. About 22 people can be seated in the dining room for a formal meal and, by utilizing the lounges, about 60 can be accommodated for a buffet-style meal.

Mrs. Betty Wright, of the ceremonies and special events office, has been given responsibility for co-ordinating activities held in University House. Petch said anyone wishing to make reservations and other arrangements can contact Mrs. Wright at 4380.

Information services, graphic arts, ceremonies and special events, are now located in 'F' Hut. Petch said this hut will be used as a Graduate Students' Centre until better quarters can be provided.

The community development office was located in the white building on Sinclair Avenue, just off Finnerty Road. This building is now being used by the B.C. Systems Corporation and community development has moved to 'M' Hut. Proposed plans for this hut call for its renovation to serve as quarters for the department of visual arts. An additional warehouse-type building is planned for sculpture and silkscreening facilities for the department.



University House will have new tenants

Erosion of autonomy?

The annual meeting between UVic's Board of Governors and the Universities' Council of British Columbia (UCBC) has been described by Present Howard Petch as "rather discouraging."

Petch said he was becoming "increasingly concerned about indications I've been getting that the UCBC is not going to let us establish our own priorities on the building."

"Only the universities can determine their priorities on building projects," he said. "If these decisions are made by other bodies, it would be a serious infringement on the autonomy of universities."

Members of UCBC came to UVic, Sept. 19, to discuss a wide range of topics including proposed building projects and the 1978-

79 operating budget allocation from the provincial government.

UCBC allocates provincial grants to B.C. universities on behalf of the provincial government.

Petch said that during the summer he had been unable to convince UCBC to support UVic's bid for a Central Mortgage and Housing Corporation loan to provide much-needed additional residence space for 300 students on campus.

Shirley Baker, associate director of student and ancillary services and manager of housing and conference services, spoke to UCBC members at the meeting about the need for additional residences on campus.

"UCBC has never given us any support for residences," said Petch. "They wouldn't even support our application for a low interest CMHC mortgage, even though it would not have cost them anything."

Another discouraging note for Petch and the BOG is the lack of any concrete action by UCBC on UVic's proposed building projects. Many of the projects such as the fourth wing of the Clearihue Building, a theatre building and a law faculty building have been in the hands of UCBC for several months.

"It becomes rather discouraging when little progress is made," said Petch. "There was no indication at the meeting as to when any of our projects will be approved."

Confronting conflict again

The Board of Governors will be doing some more talking about what is, isn't or might be a conflict of interest situation for its members.

Education Minister Pat McGeer earlier this year requested the Board to develop a conflict of interest clause to govern its members.

In May, the BOG adopted a broad resolution that may not have been exactly what McGeer had in mind.

The resolution stated "it would be difficult to define the precise situation in which such a conflict may take place. Hence, it is the responsibility of each member to exercise his or her own judgement in regard to a possible interest in decisions in which he or she may participate as a board member."

Therefore, the resolution continued, when a BOG member has a personal interest in any contract or other arrangement proposed to be entered into by the BOG, the member concerned shall "declare such a conflict and abstain from voting on the matter or if the circumstances so require, absent himself or herself from the meeting of the Board and its committees, when that contract or arrangement is being discussed.

When chairman Joseph Cunliffe mentioned the matter at the BOG's September 19 meeting, he also remarked that it has transpired that at different meetings it has been evident that there is some difference of opinion on conflict of interest.

"It might be well to call a special meeting to discuss this item."

Cunliffe told the board that he would be calling the special meeting before the end of the year.



Iona Campagnola, federal minister of fitness and amateur sport, visited campus recently to present a cheque for \$29,000 towards the reconstruction of the track at Centennial Stadium. While here, she toured the McKinnon Centre, talked to reporters and took a short, stockinged jog on the new track. See Page 3.



Rowing is growing for ladies

UVic's rowing teams are looking for people who won't make a big splash.

They need coxswains who weigh around 130 pounds or under.

It is also important that they know how to swim, steer the boat and execute race strategy.

Particularly needed are coxswains for the men's freshmen team and for the women's teams, both varsity and freshmen.

But, if you want to join the rowing team and don't fit the above qualifications, you are still welcome.

In fact, there is room for more members in each category, said Doug White, coach of the varsity men's rowing teams.

"We are looking for anyone with varsity experience, and we are also looking for novices in both the lightweight and heavy-weight categories."

Steve Sidebotham, coach of the women's teams, said he is not too concerned about the weight of a coxswain as most women fall within an acceptable weight range for a female team.

He is eager to find a coxswain, however, as the women's teams don't have a full-time one right now.

"Any girl interested in the job would be welcome."

Sidebotham and White are both enthusiastic about the prospects for their teams this year.

"We're tremendously pleased with the turnout, and the year looks very promising," said White.

Sidebotham said the approximately 17 women who have joined his teams so far "all have excellent potential."

"It is quite strange, but women are very good rowers. They are very good at grasping the techniques of rowing."

"Women don't try to row with sheer muscle power, as men do sometimes, and they are more flexible," he added.

"Rowing for ladies is growing. Last year in Montreal, the first Olympic rowing competition for women was held. A woman starting tomorrow could do very well in one year because the level of international competition is not high yet."

White said male beginners are welcome.

"Our program is pointed at giving them enough experience to move on to the varsity crew."

The teams maintain an open-ended registration throughout the year.

The prime prerequisite is enthusiasm and, according to Sidebotham "you don't even have to be in good physical condition because we will get you into condition."

"The team is using new equipment, which is the best in the world, and all members who are enthusiastic and come to the workouts will go to all local regattas," he said.

Practice sessions are held outside of class hours about six times a week at Elk Lake, where the teams share a boathouse and dock with the Victoria City rowing club.

Interested coxswains and rowers should contact Doug White at 477-5051 or 387-3279, or Steve Sidebotham, 383-0761 or 387-3273.

Scholars take on monumental task

Dr. Anthony Edwards (English) has been named general editor for a massive literary project involving 50 to 60 international scholars, which could take from 10 to 15 years to complete.

The scholars are attempting, for the first time, to provide an Index of Middle English Prose, a complete listing of all surviving English prose published from 1150 to 1500.

"This will involve examining all private and public collections in Canada, the United States, Europe, the British Isles and Australia," explained Edwards.

"There are a number of large, private collections that have never been opened to the public," he said. "These are likely to provide all kinds of new material."

Edwards pointed out that the original

manuscript of Sir Thomas Malory's "Le Morte D'Arthur", written in the 15th Century, was discovered in a private collection in the 1920's.

"There may be many other important works that have been overlooked," he said.

Edwards said the size of such an undertaking had deterred scholars from attempting it in the past.

"For some time discussions have been going on among scholars in great Britain, the U.S., and Canada concerning the feasibility of such an index," he said.

As a result, an advisory committee of professors from the U.S., Canada and England has been set up to oversee the project.

The committee is now seeking financing for the project in England and Canada.



Dave Down is looking for rowers to fill the boats. The dog is not eligible but two-legged rowers, males or female, are needed.

gazette

The Board of Governors reports the following actions taken on Sept. 19, 1977:

Term of Appointment

Dean W. Halliwell, term of appointment as Assistant to the President, Staff Relations, to be Aug. 1, 1977 to June 30, 1980.

New Appointments—Administrative and Academic Professional

Colleen M. Adams, B. Math (Univ. of Waterloo), Ottawa, Ont. appointed programmer/analyst (CS3), department of administrative systems, effective Oct. 1, 1977.

Gavin Quiney, Teaching Dip. (Loughborough Training College), B.Ed. (UVic), Victoria, B.C., appointed coordinator of residence affairs, effective Oct. 1, 1977.

Special Appointments

Roger Ruth, associate professor, Faculty of Education, appointed acting director and associate professor, Child Care Program, effective Sept. 15, 1977 to June 30, 1978.

Richard B. May, associate professor, department of psychology, reappointed assistant chairman, department of psychology, effective July 1, 1977 to June 30, 1978.

New Appointments—Faculty

Louis D. Costa, A.B. (City College of New York), M.A., Ph.D. (Teachers College), Dix Hills, New York, appointed professor with tenure, department of psychology, effective July 1, 1978.

Barry Carin, B.A. (McGill Univ.), Ph.D. (Brown Univ.), Ottawa, Ontario, appointed visiting associate professor, School of Public Administration, effective July 1, 1978 to Dec. 31, 1979.

Tenure

Martin B. Hocking, associate professor, department

of chemistry, granted tenure, effective July 1, 1977.

The Senate reports the following proceedings from the 144th meeting which was held on Sept. 14, 1977.

ad hoc Committee Established

Senate approved the establishment of an ad hoc committee on the Calendar and requested the committee on committees to recommend the terms of reference and the composition of the committee at the next meeting of the Senate.

Senate Docket in Library

The Senate agreed to place a docket of materials for the open session of Senate meetings in the library each month for access by interested persons prior to Senate meetings.

Senate Committee Appointments

Appointments were made to Senate committees for 1977-78, as follows:

Academic Standards: Alex Bavelas, W.M. Barss (Chairman), P.H. Kappel, C.D. Main, Dean of Human and Social Development (ex officio). admission and re-registration: R.T. Symington, O.P. Noble (Chairman), S.M. Soper. awards: G. Lazarevich (Chairman), K.O. Wright, W.B. Miller.

committee on committees: R. Ruth.

continuing education: F.E. Lort, E. Schwandt, R.E.L. Watson (Chairman), R.L. Thompson.

honorary degrees and other forms of recognition: R.N. O'Brien, D.E. Schmidt.

library: L.W. Sutker, F.S. Borowicz, J.W. Harker, K.W. Rankin (Chairman), W.B. Miller.

planning: H.M. Miller, R.H. Mitchell, Dean of Human and Social Development (ex officio).

summer session: B.G. Corry, R.C. DiBella, Dean of

Human and Social Development (ex officio).

teaching and learning: R.S. Beer, A.A. Oberg, D.J. Leeming (Chairman), R.T. Symington, H. Irving, R.L. Thompson, T. Heppell.

university budget: L.R. Robinson, J.L. Climenhaga (Chairman), N.A. Swainson.

English 099

The Senate revised the Calendar regulation governing English requirement, notably the section concerning English 099. The new regulation will take effect in September 1978 and will appear in the 1978-79 Calendar. In brief, the new regulation states that a student who is required to take English 099 has a limited time in which to pass the course: the first winter session of attendance plus the immediately following summer session. If a student is unsuccessful during this period, permission to return to the university will be denied until evidence of attainment of the required level of competence in English is demonstrated. The usual appeal procedures will apply.

Repetition of a Course for Additional Credit
A recommendation made by the Faculty of Arts and Science was approved to the effect that no student may repeat a course for additional credit unless the Calendar specifically states that the course may be so repeated. This policy, which applies to courses which have variable content, will be reflected in the 1978-79 Calendar.

Extension of Honours Programs

A regulation in the Faculty of Arts and Science was revised on the recommendation of that faculty: "Normally a student should complete the requirement for an honours program in four academic years. Requests for extensions should be made through the department concerned to the dean's

office."

Procedures for Administrative Appointments

The following motion, approved by the Senate, will go forward to the Board of Governors in accordance with Section 28(e) of the Universities Act:

That a clause be inserted into the approved procedures for the appointment of the vice-president and the deans of faculties as follows: "the members of the search committee shall be encouraged to consult extensively amongst their constituents concerning those of the stronger candidates remaining on the committee's short list with a view to gauging the general feeling of the constituents."

Change in Senate Rules Concerning Publication of Election Results

Senate approved a change in its rules concerning the publication of results for elections to the Board of Governors and the Senate. From now on, the registrar shall publish the names of the successful candidates only, the number of votes in the election and the number of votes received by each successful candidate. However, the registrar shall make a complete record of votes cast in any such election available to anyone eligible to vote in the election.

Elections Authorized
The Senate authorized the registrar to conduct elections to fill vacancies on the Senate arising from the resignations of Dr. A. Kratzmann (Faculty of Education), Dr. J.C.E. Greene (Faculty of Arts and Science), Dr. J.M. Dewey (faculty member at large), H.D. McIntyre (Student Association), John Pennington (Part-time student).

Vice-Chairman of Senate

Dean F.M. Fraser was elected Vice-Chairman of the Senate for a one year term.

Chemistry prof awarded second doctorate



Grambart Photo

Dr. Alex McAuley (Chemistry) has been awarded a prestigious Doctorate of Science by the University of Glasgow.

The doctorate is the highest awarded by a university and comes only after a graduate has made a significant independent contribution to the discipline.

To receive such a doctorate, a professor must submit a lengthy thesis which must constitute "an original and substantial contribution to scientific knowledge."

McAuley's thesis, spanning 12 years of research, was titled the "Mechanism of Formation and Redox Reactions of Inorganic Complexes in Solution." It involved more than 60 publications and was examined by an independent group of assessors.

"You approach writing the required thesis by stating the relationships between the various studies you pursued, and placing the whole work critically into perspective with the general state of knowledge in the field," explained McAuley.

He said that many academics choose to put their work "on the line" in this way because the examiners, who remain anonymous, are of high international standing.

"With success rates generally less than 50 per cent, you feel, if you are successful, that you've done something worthwhile."

McAuley's research has been mainly into the manner by which rapid chemical reactions take place in solution. Special techniques had to be developed for monitoring reactions which are often completed in thousandths of a second.

McAuley, who has lectured extensively in Europe and North America on his research, is currently studying biological systems to examine the role and reactivity of metal ions in living systems.

The writer of a Town Talk item in a recent edition of the *Victoria Times* goofed on one point. The item described a short sprint, made for the benefit of photographers, in which Minister of Amateur Sports and Fitness Iona Campagnolo, Board of Governors chairman Joseph Cunliffe, and Centennial Stadium chairman Bob Hutchison, participated. According to the item, the minister managed to "out-jog a 'wheezing' Cunliffe. Perhaps the writer was simply trying to stress the fact that the minister is in excellent cardiovascular condition. She may be, but Cunliffe, known for his rigid fitness routine, does not wheeze when he runs. In fact, those who've tried to match his pace in jogs at the 'Y' in downtown Victoria, say Cunliffe is almost impossible to keep up with over three or four miles. "Wheezing", indeed.



Who's wheezing?

The French Department is offering a series of noon hour films (12:30) in MacLaurin 211. On Mondays and Fridays, the films will be from the National Film Board, for pure enjoyment. On Tuesdays and Thursdays, the series "En France comme si vous y étiez," gives you a chance to brush up your French. On Wednesdays there will be slide and tape presentations on French civilization through the Arts. Film Schedules are available at the French Dept.

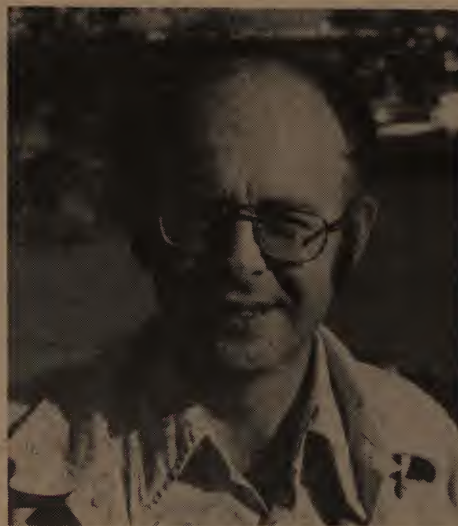
Specialists and Air Pollution Occupations and Pre-occupations is the title of the 14th volume of the Western Geographical Series published by UVic's department of geography. The result of a study conducted by Mary L. Baker of Simon Fraser University, the latest published work in the geographical series examines different specialist perspectives towards air pollution developed by students of medicine, law, engineering, economics and geography at the University of Toronto.

ringers

The *Malahat Review* is offering an index for the years 1967-1977, compiled by Patricia Jose. It is available at the review office, Room C22, Clearihue Building, at a cost of \$3.95. The review is presently in its tenth year of publication. Conceived in 1965 by Dr. John Peter (English) and Robin Skelton (Creative Writing) as an International Quarterly of Life and Letters, it is published by UVic. The first issue appeared on New Year's Day, 1967. During its ten years, the review has published poetry, fiction, drama, art, memoirs and critical essays from almost all the countries of the world, along with the best of new Canadian writing. At a time when the financial future of the review was in doubt, one hundred and forty-five letters, postcards and cables of support were received from a number of eminent writers and artists. It is now read in thirty countries. In 1969 the first special issue was produced, a double-length symposium devoted to the life and work of Sir Herbert Read, edited by Skelton. It was published by Methuen of London in 1970. The *Malahat Review* has published three issues devoted entirely to Canadian writing, one of which was the Margaret Atwood symposium, edited by Linda Sandler. The magazine is financed entirely by the university and receives no regular subsidy from any other source.

During the past year, Dr. J. Douglas Porteous (Geography) has read papers on resource frontier development at seven professional meetings around the world. These papers dealt with the social and political effects of urban and regional planning by multinational corporations and governments in northern Canada, mainland Chile and Easter Island. They were read in Moscow, Edmonton, Latin America, Salt Lake City, Regina, Hawaii and Columbia. Previous papers on these topics were presented by Porteous in New Zealand, Chile, Britain and Bangladesh.

The province of Manitoba has reclaimed one of its native inhabitants for the week. William Valgardson (Creative Writing) is now visiting the province of his birth as patron of Manitoba Library Week. The week opened with Valgardson reading selections from his work in the Manitoba Legislature in Winnipeg, with Premier Ed Schreyer and the Lieutenant Governor of the province in attendance. Then the writer departed for the surrounding prairie countryside to give readings at high schools in the Lake Winnipeg district, where many of his short stories are set. Valgardson's published works include *Blood Flowers*, *God is not a Fish Inspector* and *In the Gutting Shed*.



Valgardson: booked in Manitoba

The Victoria Volunteer Bureau is sponsoring a Volunteer Fair to be held in the SUB on Oct. 12 from 9 a.m. to 4 p.m. The Volunteer Bureau acts as a liaison between individuals who are interested in helping and those groups who need volunteers. Several organizations will be represented at the Fair, including the Canadian Mental Health Association, Glendale Hospital, Parkes Clinic, Need Crisis Line, Greater Victoria Society for the Recreation of Handicapped Persons, Birthright, Greater Victoria Association for the Retarded, and the Juan de Fuca Hospital Society. About 150 organizations in Victoria currently use the services of the Bureau. Enquiries can be made at 204-620 View Street, 386-2269. Representatives of the Volunteer Bureau will be on hand at the Fair to answer questions.

Children from the community are invited to participate in a "Learn to Swim" program during the fall term. Instruction will be given at various levels, starting with 'pre-beginners' for children who are over 3'6" tall who cannot float, and going on to 'advanced', which is a combination of senior and intermediate level swimmers. All of the classes are on Saturdays, from 10 to 11 a.m. The course began Oct. 1 for 8 weeks, in the McKinnon Pool. If you are interested in having your child participate, you are encouraged to register as soon as possible. Registration in person will be accepted Monday through Friday at McKinnon 121.

notices

The Association of Commonwealth Universities is offering grants towards travel expenses for faculty visits to Australia, Britain and Hong Kong. There are three categories: teaching officers on study leave; scholars invited by universities; and postgraduate research workers holding grants. Applications must be received in London by Dec. 15. More information can be obtained at the Faculty of Graduate Studies.

Three members of the English department have recently had works accepted for publication. Dr. Edward Berry has had an article accepted by *Studies in Philology*. Dr. M.C. Faber has had an article on Hamlet accepted by the *Psychoanalytic Review*. Dr. A.S.G. Edwards' article, "The Authorship of Sodom", appeared recently in *Papers of the Bibliographical Society of America*. Edwards has also recently been appointed to the editorial board of a new scholarly journal, *Review*, to be published by the University of Virginia Press.

Faculty, staff, and students should be aware that the National Library requires that publications be deposited with specific request. Such items include university year books, guide books, directories, pamphlets and periodicals. Failure to deposit publications can result in a \$150 fine.

The final oral examination of Eric Stephen Lee will take place on Thursday, Oct. 6, at 10:30 a.m., in Rm. 193, Cornett Building. The title of his Ph.D. thesis is "A Test of Two Minimax Models for Predicting the Sealing of Partitions of Stimulus Sets".

The University Women's Club will hold its regular meeting Oct. 19 at 8 p.m. in the Cornett Building, Room 163. Dr. Phyllis M. Sherrin (History) will speak on "Quebec's Quiet Revolution: Myth or Reality?"

Members of the Faculty of Graduate Studies are invited to attend the oral examination of William R. McKay, M.Sc. candidate. His thesis is titled "Man in Cold Water: Heart Rate and Electrocardiographic Responses". The examination will take place at 3:30 p.m., Oct. 11, 1977, Rm. 0003 Cunningham. A copy of the thesis is available at the Faculty of Graduate Studies general office.

The UVic Christian Science Organisation will sponsor a lecture entitled "Reality: Matter or Mind" by Charles W. Ferris, C.S.B., of Minneapolis, Min. It will take place in Room 144, MacLaurin Building on Thursday, Oct. 6 at 12:30 p.m. Following the lecture, Mr. Ferris will be available to answer questions.

Writers treated at clinic

Students who are having writing difficulties can take advantage of a writing clinic offered by members of the department of English. It is aimed at students beyond the first year, who need help with grammar, organization, or style.

Dr. Robert Schuler originated the plan with Dr. Victor Newfeldt and Dr. Edward Berry.

Schuler explained that the clinic was spurred by the "increasing number of complaints from professors that third and fourth-year students are making fundamental errors in the writing of English". UVic made funds available for the project.

Students can go to the clinic voluntarily, or be referred by their professors. Professors from any department are invited to send a student's essay to the clinic.

No credit or obligation is attached, but tutors may ask students to do brief writing exercises. The clinic, which started Sept. 26, is located in Clearihue C327.

It is open Monday through Thursday, 10:30 a.m. to 4:00 p.m., and on Friday, 10:30 a.m. to 1:30 p.m.

Inquiries may be made by calling the clinic at local 4543, or the English department. Students will receive individual attention for as long as they desire it.

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Jim's lasting impressions

Jim Bennett, UVic's graphic artist for eight years, has resigned, effective Sept. 29, to take a position as a designer with Morriss Printing Company in Victoria.

The 31 year-old Bennett came to campus in November, 1969, and his designs are now seen almost everywhere UVic is represented, on and off campus.

His designs include brochures, posters, guide books, calendars, advertisements, maps, and department symbols. An employee of information services, he is also responsible for designing *The Ring*.

Faculty, staff and students knew Bennett as an excellent craftsman and a patient, fast and co-operative worker. "We're all going to miss Jim," said Dr. Peter Smith, Dean of Fine Arts.

In a recent interview Bennett said he enjoyed working at UVic but was "excited" by the challenge ahead.

"I've found UVic a stimulating place to work. At times it's been rough and it's been very busy, but it's been an enriching experience."

Bennett said he was now interested in acquiring "the kind of experience a designer can get only in a large print shop".

"I've always been in love with print," he said. "I've shied away from the electronic media. With print you can deliver the message into a person's hand. They can feel it as well as read it."

In his early years at UVic Bennett designed flyers, brochures and posters. He developed a common style for all brochures for high school students so that the image of UVic became very identifiable.

In later years he designed the new admissions handbook and the transfer guide.

"In design I have never believed in an outlandish approach, just for the sake of catching the eye. I believe designs must be attractive but must also be comprehensible."

He said he did enjoy finding "obscure and attractive type faces for posters and brochures".

Bennett has designed posters for plays, poetry readings, graduate courses, sports and music. He has also designed the symbols for continuing education, music, law centre, and the phoenix theatre.

Twice each year he designed the calendar for the Division of Continuing Education. He also developed a map for the campus designed to show visitors where the buildings are and where to park.

He described his work at UVic as being "in many ways like a freelancer. You work alone and you follow the project through from the rough notes to the finished product."



PHOENIX
SUMMER THEATRE



Bennett: "in love with print."

Driscoll Photo

Editor chops "flashiness" from student newspaper

Ken Simon is working at *The Martlet* for the fifth year in a row, but this time he's the man in charge.

Simon, 21, from Salt Spring Island, is an inveterate world traveller who has been a biology and fine arts student at UVic and was chosen editor-in-chief of the student newspaper in March.

He arrived at UVic in 1973-74, and after two years as a full-time student, took a year off to travel. He was a part-time student last year and is devoting all of his energies to the newspaper this year.

With four September issues under his belt, Simon feels the newspaper has broken away from what he called a "too rigid format" established last year.

"My aim is to keep *The Martlet* open and flexible," he said in a recent interview in his office.

Simon says he wants to move the newspaper away from the political biases of previous years.

"Two years ago the emphasis was on the national and international scene," he said. "Last year (under editor David Climenhaga) the newspaper became too insular. There was a heavy emphasis on campus politics."

"People saw the newspaper as a closed club with writers pursuing their own interests. As a result there was a feeling of alienation among students about the paper."

"This year we're going to downplay the flashiness and get the politics out of the layout room. We'll cover a variety of issues on campus and in the community."

Simon said *The Martlet* will set aside regular pages for entertainment, sports and books. "But that's the extent of our consolidation. The rest will remain open to the various configurations to which I subject it."

He said the newspaper will cover issues at the national, provincial and local levels as well as on campus.

"I believe we should serve all constituencies on campus," he added. "I'm surprised at the extent to which the faculty, for example, read *The Martlet*."

As for his own writing Simon said he has become "a fairly decent, creative hack writer. I plan to do some investigative reporting and I've found that I enjoy deadlines. There's a dynamic feeling when you're working against deadlines and find that you can make the connections."

He described his editorial staff, as "young and untrained, but eager. There's an amazing amount of energy behind *The Martlet*," he said.

He and city editor, Donna Livingstone, co-ordinate the editorial coverage of the newspaper.

Simon is one of a trio of newcomers to senior positions at the student newspaper. Chris Mills is the advertising manager and David Koop, last year's *Martlet* columnist Arnold Edsel, is the production manager.

"We three are new in our jobs and so far we've maintained a fairly good liaison," said Simon.

One of Simon's major objectives this year

is to maintain a "realistic budget", something *The Martlet* has had difficulty doing in past years.

"The battles between the Alma Mater Society and *The Martlet* have to do with politics and money," said Simon. "As long as we keep our noses clean financially, they'll probably leave us alone."

Simon said the student newspaper has "a certain degree of political leverage" and the AMS is very aware of this. "There are no overt moves to control us," he said.

This year the publications board of the AMS is planning to hold regular meetings with student newspaper. Simon said at one of these meetings, the board attempted to persuade the editor to guarantee that "there would be no more than two libel suits in any one year."

"Now that's a bit ludicrous, but we are going to arrange a seminar on libel with the Faculty of Law. And we are going to do our best to stay away from libel suits."

Simon who worked in the production shop last year believes that area can be streamlined to cut costs. "The production manager is going to run that shop as tightly as possible," he said.

A situation Simon has inherited is the dispute with the Canadian University Press (CUP), a co-operative of 65 student newspapers across Canada.

The Martlet left the organization in June. Simon explained that the move was made in response to CUP budget increases which would have increased contributions to CUP by 500 per cent in three years.

"We were also concerned about CUP expansionist policies," Simon explained. "CUP is on a self-destructive path that reeks heavily of controls by a central bureaucracy."

"What began as an idealistic news exchange service has become a bureaucracy obsessed with political gamesmanship."

Simon said *The Martlet* is contacting stringers in Vancouver and Toronto to cover national issues and is subscribing to Liberation News Service in New York for international news.

Despite the problems with CUP, budgets, the AMS and a scarcity of "hard news hounds" Simon feels the newspaper will be a success this year. "We'll be informative and editorially stimulating," he said.



Simon: opening up the pages

The art gallery: a window into UVic

By Donna Danylchuk

Martin Segger returned to campus full-time Oct. 1 to become the first director of UVic's new art gallery in the University Centre, and curator of the Maltwood Museum which is also coming soon to this campus.

Interviewed shortly before arriving on campus full-time, Segger said he regards his appointment as an "exciting prospect" and an opportunity to work in a "fantastic facility.... with an art collection UVic can be proud of".

Segger taught full-time at UVic in 1970-71 and again in 1973-74, before joining the provincial museum for three years to develop a training program for museum curators throughout the province.

He has been teaching a course in History in Art at UVic and will continue to teach part-time in his new position.

While pointing out that planning is still in the early stages, Segger offered some of his reflections on the future direction of the gallery and museum.

A common problem of university galleries he has observed is that "they don't often distinguish between public and university uses."

"My attitude is that we have two excellent public galleries and private ones too, in Victoria. Our programs will be developed in consultation with them, to avoid conflicts and duplication."

Segger sees the new UVic facility playing a "service role to the university, rather than a leadership role in the community".

This means that the gallery will first be available to students and departments at UVic to mount their own exhibits if they are up to certain standards, he explained.

Segger is not speaking only of art students.

"There is some interesting work being done by other departments. For example, such things as samples of microbe photography done by science students may be suitable for display."

The priority of the gallery will be to "show UVic to itself, and also to the general public. It will be a window into UVic".

An ongoing function of the gallery will be to store and exhibit and regulate the rotation of the university's "continually growing" 400-piece art collection.

The collection, consisting mainly of B.C. paintings, sculptures, prints, silk screens and etchings, is now placed around campus outdoors and in various offices, hallways and stairwells.

One of Segger's first tasks, while awaiting completion of the gallery now being constructed, will be to organize the collection and label all of its pieces.

As director, he will be working with the UVic art committee which is chaired by Dr. Gerhart Friedmann. A new Maltwood advisory board will also be formed.

The gallery will bring in national and international exhibits, and it will exhibit objects from the Maltwood Museum.

The museum space will not be open to general viewing audiences.

One of Segger's roles for the past five years has been honorary curator of the 2,000-piece collection of decorative art which makes up the Maltwood Memorial Museum at 4509 West Saanich Road.

He is also known to many Victorians for his work as chairman of the heritage advisory committee to Victoria city council.

He describes the Maltwood collection of 17th century English furniture and 19th century clothing, glassware and ceramics as "the only comprehensive international decorative arts collection in Western Canada, and one of very few international museum collections in Canada".

The core of the valuable collection was gathered by turn-of-the-century sculptress, antiquarian and writer Katherine Maltwood and was bequeathed to UVic by her husband John Maltwood in 1964.

With the bequest was an endowment which was to go towards maintaining the premises and Maltwood home in Saanich that came with the collection.

However, the museum was closed to the public in 1975 and acquisition ceased when it became clear that the collection was badly deteriorating due to inadequate storage conditions in the original Maltwood building.

What to do to save the collection posed a problem for UVic administrators until a court decision last June allowed it to be moved from its original home and brought to a site with proper atmospheric and security control.

That site will be at UVic, in the lower floor of a section of the new University Centre, where a working museum storage area will be devoted to proper preservation of the irreplaceable art objects.

The design of the new 2,500 square foot museum and details of construction and completion are in the preliminary planning stage.

It is the practice "and good practice" of museums to store up to 90 per cent of their collection and show only selected objects, said Segger.

Although this will be the practice when the Maltwood Museum is brought to UVic, Segger hopes to create a situation where nothing will be inaccessible to people who are interested in seeing all of the collection.

He would like access to the museum storage area to be open to all students and faculty at UVic for scholarly research and for carrying out special projects based on certain art objects.

Arrangements are now being made to send the oriental paintings from the collection to Japan for restoration. The western paintings are hanging in the McPherson Library and the remainder of the collection will remain in the original Maltwood home until the space in the new university centre is prepared and the entire collection can be moved.

When that occurs "we will be able to start acquisition again. It is logical for a university museum to excel in curatorial excellence".

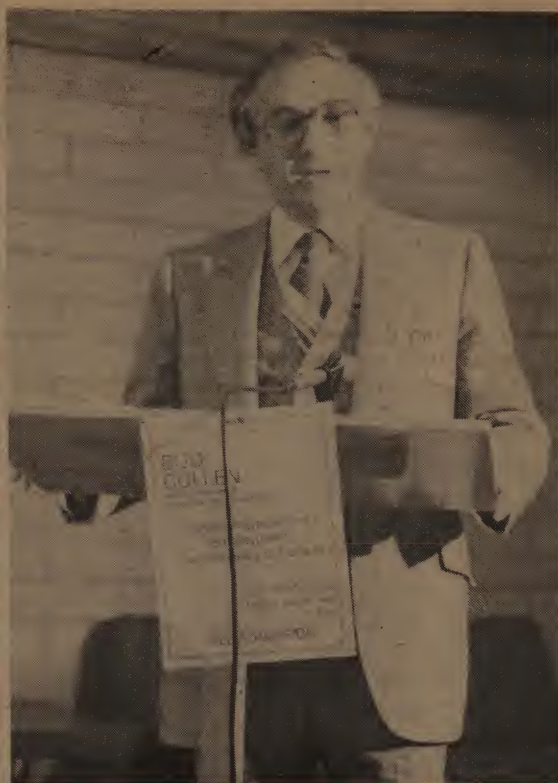
The official opening of the art gallery is scheduled for March, although the new director is anticipating that "it might be possible" to begin hanging paintings as early as February.

"Of course," he added, "it makes sense that there be free public access to all the art and museum exhibits on display in the gallery."

"In fact, it should work well in terms of public availability."

"We will have sort of a captive audience in the gallery every time there is a recital in the new university centre."

It was with obvious delight that this prediction was made by the new curator and director of UVic's future museum and art gallery.



Bud Cullen: "to what degree is it a government obligation?"

Cullen talks in the SUB

More than 100 students filled the SUB east lounge on Monday last week when the federal minister of employment and immigration came to UVic to give a noon-hour speech.

Cullen said he hoped young people today would be flexible.

He said he was "disturbed" by the attitude of a Cape Breton student he had met who said that he had spent his life in Cape Breton, received his training there and hoped to spend his life there.

"This disturbed me. We have to be prepared to look above and beyond."

He said he himself had taken a while to get through school, had been told he would never be a success and had worked at six or seven careers.

"More and more we've got to give importance to vocational guidance teachers at the secondary school level. This is crucially important."

No one department of government is going to be able to meet all the requirements of the low job situation, said Cullen.

"All levels must work together. So must private enterprise and the unions."

"To what degree is it a government obligation? Should the government be spending four to five billion to get unemployment down to 4.5 per cent?" he asked his audience.

Before leaving, the minister answered a series of questions from the floor.

"I don't see an expanding money supply within Canada... If anything, I see the money supply being reduced," he told a man who asked if the government had any plans to put more money into the economy and risk inflation, in order to keep employment down.

Another member of the audience wanted to know when the government would look at the root causes of inflation and unemployment.

"Companies in Canada are operating at only 80 per cent capacity," said Cullen.

"The cause is that there are more people looking for jobs than there are jobs available."

Why, in a time of increasing high unemployment, are the UIC regulations being tightened? asked another man.

"Even with a 14 week work requirement, we still have generous access. In many countries people must work for 26 weeks a year before drawing benefits. We have very generous entrance requirements."

There is a tendency in Canada to rely on skills from outside, commented the minister.

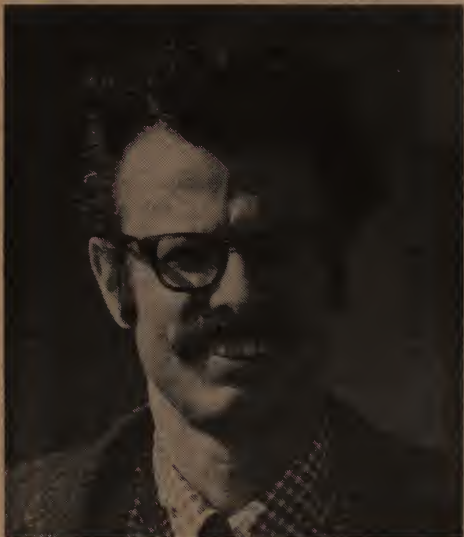
"I agree with immigration on the condition that Canadians be trained to do the jobs," he added.

Cullen said that restrictions are needed to maintain Canadian content in job contracts.



Segger: bringing Maltwood to UVic

Astronomer guides faculty association



Burke: a hectic beginning

Dr. Anthony Burke, an astronomer in the physics department, was scarcely back on campus after a year's leave when he found himself, as the new president of the Faculty Association, smack in the middle of a major controversy.

"If I had to judge on the basis of that week or two, I'd say I'm going to be extremely busy until my term expires in April," said Burke in a recent interview.

The issue confronting Burke and the association was an amendment to the Universities Act, excluding faculty members from seeking union certification.

It was suddenly introduced in the provincial legislature in the second week of September and the association executive had to react quickly.

They and others did, protesting the amendment, talking to reporters and politicians and gaining support from faculty associations and unions across Canada.

Despite this support, the amendment passed, with an assurance from Dr. Pat McGeer, Minister of Education, that faculties were still free to choose union certification. McGeer explained that he would simply introduce another amendment if faculties voted to unionize.

Burke and Dr. Rod Symington (Germanic), immediate past president of the association, have been quick to point out, however, that faculty members cannot take an official vote, except under the labor code from which they have been excluded.

The UVic association which represents close to three quarters of eligible faculty members on campus, had more immediately at stake in the amendment than other B.C. universities.

The UVic association had been debating

the issue of unionization for more than a year and in April held a straw vote among association members.

Of 298 eligible voters, 225 cast ballots, with 60 per cent voting in favor of seeking certification.

"The question of certification of our association was still under discussion when the government took this step," said Burke.

"The unfortunate thing about this amendment is that the whole thing has become a bigger issue, having little to do with certification."

Burke said the issue is really whether or not faculty members will be allowed to choose their own form of relationship with their employer.

He said he does not know what the next step in the certification issue will be for the association. "I am sure that certification will be discussed by our association again."

Burke and executive members of the association have been meeting to formulate plans for the coming year. Two major concerns of the association are the salary policy and the leave policy.

The association has already stated that it is unhappy with the 1977-78 salary settlement granted by UVic administrators.

Burke said the executive met last week to discuss the issue of salary policy and the method by which negotiations are carried out at UVic.

"This is of major concern to the association," he said. "And I know there will be a number of other issues coming up as the year continues."

As far as dealing with the administration, Burke said the association is "sometimes in an adversary position and sometimes on the same side".

"The important thing is that the climate at this university is one of goodwill and serious discussion.

"I believe the dialogue is a friendly and constructive one at present."

Burke has been at UVic for nine years and has served on several faculty association committees. He has been treasurer of the association and this year when the nominating committee asked him to accept the nomination for president he agreed to stand.

"The nominating committee comes up with a slate of candidates and while the option is always there for further nominations, the slate is usually accepted by the general membership."

While he didn't ask for the job, Burke is prepared to spend a lot of the 1977-78 academic year attending to association business. "There are a lot of little things that can happen and I realize it's going to take up a lot of my time," he said.

Campus briefs



UVic has been awarded a \$162,000 contract by the federal Department of National Defence, to provide French language training to the young officer cadets at Royal Roads Military College.

Through the Division of Continuing Education, UVic has hired seven, full-time teachers who are on staff at Royal Roads and instruct French as part of regular university courses there.

There are 250 cadets and 30 civilian employees at Royal Roads taking the French language instructions.

Dr. Elaine Limbrick, chairman of the French Department, hired the instructors in conjunction with Royal Roads officials.

This is the second year that UVic has been awarded the contract.

For the second time Dr. Roger Ruth has been appointed acting director of the Child Care Program in the new Faculty of Human and Social Development.

Ruth was first appointed acting director prior to the appointment of director Dr. C.W. Webster, in 1975.

Webster resigned as director in July to accept a position with the Clarke Institute of Psychiatry in Toronto.

Ruth was again appointed acting director Sept. 15, and a search committee has been struck to find a new director before July 1, 1978.

Dr. Isabel MacRae, director of the School of Nursing and Dr. Brian Wharf, director of the School of Social Work, have been elected by acclamation to the Senate.

The election became necessary with the formation of the new Faculty of Human and Social Development. The election increases the number of Senate seats to 53.

Elections are under way to fill five vacancies on Senate for faculty members, but an election to fill two vacancies for students on the Senate has been delayed.

The problem is an amendment which received third reading in the provincial legislature recently but, as of **The Ring's** deadline, had not become official law.

The amendment, in effect, gives the voting franchise in Senate and Board of Governor elections, to all students. In the past only students taking 12 or more units of courses could vote.

When the amendment becomes law, there will be an additional 1,700 part-time students eligible to vote in these elections.

A student must still take 12 or more units of courses before he can run in a Senate or BOG election. Registrar Ron Ferry said he would delay the election "for up to two weeks" so that part-time students will be able to participate under the new law. The faculty elections end Oct. 27 with the counting of ballots. Ferry is hoping to call for nominations for the student election today but will wait, if the government has not yet officially approved the new law.

Feeling peevish or even peachy? You can see Dr. Petch

By Donna Danylchuk

As it turned out, Petch Peeves was sometimes a misnomer.

Only about one-third of the people who dropped in on President Howard Petch's informal weekly talk sessions last year felt peevish enough to complain.

"About one-third came because they wanted to talk about the university, and about another third came with positive suggestions," Petch recently told the Ring.

In Petch's point of view "there was no doubt it was very successful and extremely useful."

Thus, Petch Peeves will continue this year, beginning tomorrow (Thursday) in the SUB upper lounge at 3:30 p.m.

Last year, Petch tried to terminate the talks by 5:00 p.m. although "sometimes I couldn't."

And, on the occasional day, people didn't come.

UVic's president originally initiated weekly

talk sessions when he was acting president of the University of Waterloo "during the height of the student problems."

When he came to UVic in January 1975 he lived in residence for six months and "students became accustomed to seeing me walking back and forth and we started talking. After I moved to University House some said that they missed our talks."

Petch noticed that the formality of making an appointment was deterring some people from coming to him with problems or just to chat.

"I thought that I should restore that feeling of access."

His solution was to establish Petch Peeves held on alternate weeks in the upper lounge of the SUB and in his office in the Sedgewick building.

The president was visited by student, staff and faculty, and he noticed that some from each group had a preference for the SUB and some for his office.

Some people preferred the office location when they wished to talk about a private problem.



Petch: hoping someone will come and chat

Others had a preference for the SUB including "most of the people who just like to talk."

The president "found it surprising that there was not a great deal of criticism, and what there was was very mild."

Considering the problems that some people faced "I found it amazing that they didn't raise the roof."

Red tape was a common problem faced by many people.

The red tape problems Petch could often solve with a phone call, which sometimes had the added benefit of preventing the same problem recurring again for others.

Another important aspect of Petch Peeves, according to the president, is the opportunity it gives the staff to find out more about the university and to see how their particular jobs fit into its overall structure and functioning.

No appointment is necessary if you want to talk to the president.

It's simply a matter of phoning Local 4201 to find out whether he will be in his office or in the SUB.

Gaddes: pioneer explores brain-behavior

By Donna Danylchuk

It was during the war years that Dr. William Gaddes (psychology) first developed a particular interest in the effects of brain damage.

Gaddes, who is retiring from active teaching in April, first came to Gordon Head in 1945. As a clinical psychologist, he was stationed in the army huts by the Canadian Armed Forces Medical Corps.

He was involved in processing over 5,000 returning prisoners of war, and observed that "people with brain injuries often couldn't talk."

At that time, neuropsychology, the study of brain-behaviour relationships, did not exist as a formal field of study.

There were few tests in existence then for diagnosing and prescribing remedial treatment for brain-damaged victims.

"... the school system and government have been generally reluctant to support special education programs for children with learning problems."

"Even today there are not enough people in the field," remarked Gaddes during an informal interview in his office in the Cornett Building.

Downstairs on the main floor is Canada's first neuropsychological lab designed specifically for the study of children with learning disabilities. Gaddes started the lab in 1963 and has since been developing it in co-operation with other members of UVic's psychology department.

Gaddes' conversation is laced with interesting reminiscences about the history of UVic and praise for colleagues he has known and worked with over the years.

He "always had medical interest" extending back 45 years to the time when he taught elementary school in the Okanagan and encountered children with learning disabilities.

When he came to Victoria College in 1946 he was the first and only psychology professor on campus, and remained so until 1958.

"In those days we taught from Monday through Saturday mornings. Everybody did, so we had our free time on Saturday afternoon."

After teaching at Victoria College and UVic for 12 years, Gaddes met Dr. Robert M. Peet, a local neurologist whom Gaddes credits with changing the direction of his research career.

As a neurologist, Peet was encountering children with brain dysfunctions who were having problems at school. Teachers were also confused as to how to help bright children with learning problems.

The problems did not seem to come directly within the sphere of either profession, so "a psychologist seemed to be the right person to study problems in this middle area. Dr. Peet got me into it."

In collaboration with Peet, Gaddes began seeing brain-damaged patients on Saturday afternoons. He also started doing neuropsychological research and diagnosing and utilizing the test results to plan remedial education programs.

"There are quite a few people with brain damage walking around. They come from all walks of life, and they are often very bright, not at all retarded."

"They may be lawyers, doctors, professionals. If the injury doesn't affect the language or muscular centres of the brain it doesn't affect everyday functioning."

But, others are not so fortunate. "Some of them are even picked up for being drunk. It can be very frustrating for them."

Gaddes continued to work with patients part-time until 1962 when a grant from the Kinsmen Polio Foundation enabled him to take a sabbatical to explore developments in his field and to underwrite equipment for a lab.

In 1963, Gaddes and Peet opened Canada's first neuro-

psychological lab, on Saturday afternoons.

"We didn't know it was the first at the time," he recalled.

"There were no books on the subject then," so Gaddes travelled to 20 North American centres to study with other neuropsychologists and investigate equipment. He found that neurosurgeons were becoming increasingly interested in neuropsychology because of the new insights it provided into brain functioning.

Among the people Gaddes studied with was Dr. R.M. Reitan, a pioneer in the area of neuropsychological localization of brain lesions and one of the first men in the United States to give tests to localize brain lesions before surgery.

Gaddes returned to UVic, and the lab was opened on July 1, 1964 on a full-time basis.

UVic psychologists Dr. Otfried Spreen, Dr. Frank Spellacy and Dr. Louis Sutker have since joined Gaddes in the lab, and the four men share the lab work while carrying on with their teaching schedules.

Mrs. Marjory Halliwell, psychometrician, began working with Gaddes in 1964 and has become "an expert in administering tests to patients and scoring and supplying the resultant data."

In 1965, with the assistance of neurosurgeon Dr. F.A. Hamdi, Gaddes and his colleagues helped to establish a neuropsychological lab at Royal Jubilee Hospital, where doctors were becoming increasingly concerned about the effects of brain damage on adults.

More adults than children suffer from the effects of brain damage, which may result from pre-natal, birth or post-natal complications, or accidents, strokes or infection, Gaddes said.

One of his concerns has been to provide educators with information about brain-behaviour relationships in the areas of handedness (the use of one's hands) and cerebral dominance.

One hemisphere of the brain, he explained, controls the opposite side of the body. If a person is injured in a certain area of the left side of the brain, he or she may be paralyzed on the right side. This will be a certainty if the motor control centres are injured.

"For children it is a game, they love it."

He recalled a grade one student who was sent to Peet "because he was so slow he never got anything done."

In the lab the doctors found an irregular electrical pattern in the left side of the brain where the manual centres of control are located.

"At that age we thought it was best to leave him right handed, so we advised his teachers to give him oral exams."

"The boy is now getting straight A's in grade nine math and science."

If a person is injured on the right side, their ability to deal with spatial relationships as in art or geometry is affected. Another patient Gaddes recalled "could do algebra, dealing



with concepts, but not geometry."

The language control centres are on the left side, and "we now know specifically which areas control understanding and speech."

Inside the lab, Gaddes' fascination for the equipment that has helped him in his work is immediately apparent.

He pointed to what appears to be a simple box with a screen and tick-tack-toe squares, on which children identify changes in a simple pattern of lights presented sequentially.

"For children it is a game, they love it," said Gaddes while demonstrating the machine.

But for neuropsychologists it is the dynamic visual retention test, one of Gaddes' valuable contributions to the neuropsychological field.

Developed by the UVic psychologist, it enables him and his colleagues to discriminate reliably between brain-damaged and normal children.

Another contribution from the lab is a large collection of data which indicates the levels of performance of normal children, compared to the performances of children suffering from brain damage.

"If the diagnostic and treatment facilities are free, you get a truly representative group for research purposes."

This data is now being requested by neuropsychologists from the United States and Europe. It was developed in the lab over a period of four years, through conducting a series of 30 different tests on 500 children aged six to 14.

The approximately 50 tests conducted in the lab cover numerous aspects of brain-behaviour relationships including: changes in visual, auditory and tactile perception; changes in intellect including language comprehension, number concepts, deductive and inductive reasoning, spatial imagery and sequential neuro-muscular speed and accuracy.

Most patients referred to the lab are tested for five to seven hours, and further time is allowed for preparation of reports and consultation with parents and teachers.

Initially, professional fees were charged to patients but since 1965 about 90 per cent of the diagnostic and prescriptive lab work has been free.

"While you charge professional fees, you are collecting samples on the basis of a patient's ability to pay, and you are not getting a representative sample."

"If the diagnostic and treatment facilities are free, you get a truly representative group for research purposes."

The lab supported itself through donations and research grants until 1974, when UVic took over the costs.

Gaddes, who is on the Board of Governors of Cedar Lodge Centre at Cobble Hill, a private school for children with learning disabilities, has found that "the school system and government have been generally reluctant to support special education programs for children with learning problems."

"I think it is interesting that Cedar Lodge Centre is completely funded by the Department of Human Resources, not the Education Ministry."

When Gaddes retires from active teaching in the spring, he intends to continue his research and his work with Cedar Lodge.

Over his distinguished career he has amassed many awards and recognition for his achievements. This fall his busy schedule includes a visit to the University of Michigan where he has been invited to be the guest speaker and workshop leader at a two-day conference on "Neuropsychology and Classroom Learning."

It is his belief that it has been "our privilege to be able to study children at UVic."

"Universities are supposed to be academic-research oriented, but I believe that if a university which is supported by the taxpayers has skills which are of community value, then the university should return this value if at all possible."

There is no doubt that Gaddes' presence at UVic will be felt by many people in the surrounding community and country long after he officially retires.

Swimmers seek synchronization

The first synchronized swimming instruction at UVic began Thursday with a full class of ten students.

The course, taught by Cathy Flanders (A&S 3), is part of this year's intramurals and recreation program.

Synchronized swimming is a ladies' activity. The women in the class will learn the basic movements and group formations of water ballet. They have all reached the Red Cross Intermediate level in swimming and ex-

hibit a very competent breast stroke.

"We have to develop a very graceful breast stroke to get from one formation to the next smoothly," said Flanders. "The basic element of the sport is movement."

Basic to the course is the learning and practice of sculling, which includes the various arm movements used in supporting the body in any position, vertically or horizontally. It can be thought of as different ways of treading water with less arm

movement.

The individual figures presented in water ballet include twisting, spinning, and holding vertical positions with the feet up in different poses. Synchronization means the ability of a group to present figures together, usually choreographed to music.

Formal competition is divided into four levels. The first level involves a team effort with from four to eight girls participating. The second level is for duets, and the third is

solo. The first three levels are synchronized to music and the swimming costumes are of different colors. The fourth level concentrates on individual stunts.

In terms of physical demand, synchronized swimming has been found to be more demanding than figure skating. Swimming involves the same graceful movements as skating, but also involves exact breath control owing to the impossibility of breathing under water.

SEM: scans the surface of an invisible world

By John Driscoll

Over at the Cunningham Building, they refer to it as the SEM.

With it you can study clear, sharp pictures of cells, magnified several thousand times, or count the drops of pollen on the hind leg of a bee.

The SEM is an electron scanning microscope and it's being used by a variety of researchers to explore a world that not only can't be seen by the naked eye, but can't be seen by most microscopes.

In their unravelling of scientific puzzles, scientists using the SEM have come up with incredibly beautiful photographs from this microscopic world.

The SEM was obtained by the biology department through a National Research Council Grant to Dr. Arthur Fontaine, chairman of the department.

The grant of \$65,000 was the largest single NRC equipment grant given in 1976-77 and represented 22 per cent of all capital funds available for animal biologists in Canada that academic year.

"The reason for the grant coming to UVic was the diversity of application that the microscope would have here," said Fontaine.

"It is being used for a variety of research projects, and not just by biologists."

Dr. Martin Hocking (Chemistry), is using the SEM to study how the Alberta Tar Sands were formed. Through examining minute fragments of the tar sands, Hocking has discovered that the sands contain, among many things, the cells of coniferous trees.

Lee Humble, a graduate student in biology is studying the sense organs of bees.

Dr. Stuart Whitney, from the federal forestry laboratory in Victoria, used the SEM to study ways of attacking the harmful bark beetle with a parasitic fungus rather than pesticides.

Dr. Harold Brodie, retired professor emeritus from the University of Alberta, is using the SEM to study bird's nest fungi.

Dr. John Owen (Biology) is using the microscope to study the development of pine cones in commercial forests.

Marlene Fuhrmann, a fourth-year biology student, uses the SEM to study the skeleton of the brittle-star, providing background material on functions of collagen, the major

connective tissue in all animals.

Dr. Louis Hobson (Biology), is examining single-celled algae in marine plankton.

Dr. John Paden (Biology) is studying soil fungi.

Fontaine is using the SEM to study blood cells in invertebrate animals and in his research, specializes in the lowly sea cucumber.

The sea cucumber, found in abundance in the waters around Victoria, is not much to look at, a small sluggish creature resembling, in shape, a cucumber of the garden variety.

Sea cucumbers, however, do have a large volume of blood cells and Fontaine is engaged in studying how these cells defend themselves against foreign invaders.

"With the microscope I am discovering how these cells aggregate to form clots and how they destroy foreign invaders," explained Fontaine.

The composition of the blood cells of sea cucumbers is remarkably similar to the composition of blood cells in vertebrate animals.

While Fontaine is studying very simple cell systems with simple defence mechanisms,

"the kinds of behaviors we see in these cells are similar to the behaviors of mammalian cells in tissue culture."

Fontaine explained that the advantage of studying cells of sea cucumbers is that there is little technique required, compared to the study of mammalian cells.

"You don't have to maintain sterile conditions nor an exact, constant temperature as is the case with more complex systems," he said.

The cells Fontaine studies, with the aid of the SEM, provide a model for reticulo-endothelial systems, that is, systems of cells in humans and other mammals that kill foreign bodies.

"The fundamental studies of self-defence phenomena in a simple system provide background for medical research in the same area," he said.

Jack Dietrich is the biology department's microscope technician and he explained, in simple terms, how the SEM works.

The specimen to be photographed is first placed in a critical point dryer where it is dehydrated. It is then placed in a gold coating machine that showers the specimen with molecular gold.

The gold-coated specimen is then ready for the SEM. Within the microscope is a tiny electron beam which is magnetically focused by adjusting dials. The electron beam scans the specimen and the results are visible on an oscilloscope screen.

With a flick of a switch the magnification can be increased anywhere from 10 to 180,000 times.

A picture can be taken from the oscilloscope screen with an ordinary rollfilm camera.

"What makes the SEM special is that despite the magnification, you can get excellent depth of field and resolution in the photographs," explained Dietrich.

Results of experiments involving the SEM are on display in the Cunningham basement. Pictures of the eye of a fly, looking like the speaker of a stereo, and huge floating pods which are actually pollen from pine cones, line the walls.

"It's an incredible machine," said Fontaine. "And it's proving to be an invaluable research tool."



Lee Humble shot this picture of the sensory hairs on the antenna of a male solitary bee, magnified 2,000 times

calendar

Wednesday, October 5th

3:30 p.m.
Biology Seminar. Dr. D. Faber, Head, Canadian Aquatic Identification Centre. "Larval Fish Ecology". CU 1102.
7:00 p.m.
Cinecenta Films. SUB. "Intolerance". D.W. Griffith's silent film.
7:30 p.m.
Senate Meeting. Commons, Room 205.
8:00 p.m.
Faculty Recital Series, Concert I, "Great Serenades". UVic soloists, George Corwin, conductor. Admission \$3.00 and \$2.00.
Dinner/Music in the Faculty Club. Dinner will precede recital. Information from Continuing Education. Phone 477-6911, local 4802.

Thursday, October 6th

10:30 a.m.
Ph.D. Oral Examination, Eric Stephen Lee, "A Test of Two Minimax Models for Predicting the Scaling of Partitions of Stimulus Sets". Cornett 193
3:30-5:00 p.m.
Petch Peeves. SUB Upper Lounge. Students, faculty & staff welcome to see Dr. Petch, singly or in groups.
7:15 p.m.
Cinecenta Films. SUB. "Lenny Bruce Without Tears".
8:00 p.m.
Faculty Women's Club. Wine and Cheese Party.
9:30 and 11:00 p.m.

Cinecenta Films. SUB. "Emanuelle II: Joys of a Woman"

Friday, October 7th

12:30 p.m.
Fridaymusic. Free noon-hour concert. Mac 144.
3:30 p.m.
Arts and Science meeting. Elliott 167.
7:10 and 9:15 p.m.
*Cinecenta Films. SUB. "Lenny" with Dustin Hoffman.
11:30 p.m.
Cinecenta Films. SUB. "Emmanuelle II: Joys of a woman".

Saturday, October 8th

7:15 p.m.
Cinecenta Films. SUB. Elia Kazan's "Viva Zapata" and "On the Waterfront", with Marlon Brando.

Sunday, October 9th

7:00 and 9:15 p.m.
*Cinecenta Films. SUB. Gene Wilder's "Sherlock Holmes Smarter Brother".

Monday, October 10th

7:30 p.m.
Cinecenta Films. SUB. "Chac" (Panama 1975).

Tuesday, October 11th

3:30 p.m.
M.Sc. Oral Examination, William Ross McKay, "Man in Cold Water: Heart Rate and Electrocar-

diographic Responses". Cu 0003.
4:00 p.m.

Seminar, Dr. Robert Miller, Dept. of Microbiology, UBC, "Regulation of Early Enzyme Synthesis in Bacteriophage T4". Elliott 160.

Wednesday, October 12th

9:00 a.m. to 4:00 p.m.
Volunteer Fair. SUB. All students, faculty and staff are invited to attend the display to find out more about volunteering in Victoria.
7:00 and 9:15 p.m.
Cinecenta Films. SUB. Ken Russell's "Women in Love".
7:30 p.m.
Senate Meeting. Commons 205.

Thursday, October 13th

12:30 p.m.
Fine Arts Meeting. Mac 169.
3:30 to 5:00 p.m.
Petch Peeves. President's Office. Students, faculty & staff welcome to see Dr. Petch, singly or in groups.
7:15 p.m.
Cinecenta Films. SUB. Classic Warners melodrama, "Angels with Dirty Faces" and "The Letter".

Friday, October 14th

12:30 p.m.
Education Meeting. Mac 115.
7:00, 7:00, 11:00 p.m.
Cinecenta Films. SUB. "Janis" and "Condensed

Cream of Beetles".

Saturday, October 15th

7:00 and 9:15 p.m.
*Cinecenta Films. SUB. "Fun with Dick and Jane".

Sunday, October 16th

7:00 and 9:15 p.m.
*Cinecenta Films. SUB. Ken Russell's "The Devils".

Monday, October 17th

1:00 p.m.
Board of Governors meeting. Gold Room, Commons.
7:30 p.m.
Cinecenta Films. SUB. Gideon Bachman's "Ciao Federico" and Orson Welles' "F For Fake".

Tuesday, October 18th

4:00 p.m.
Seminar. Dr. G.G. Geesey, Dept. of Biochemistry and Microbiology, UVic, "Substrate Capture by a Psychrophilic Marine Bacterium". Elliott 160.

Wednesday, October 19th

7:00 p.m.
Cinecenta Films. SUB. Antonioni's "Blow-Up".

*N.B. These Cinecenta films are open to students, faculty, staff, alumni and guests ONLY.

